

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re U.S. Patent Application of** )  
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**MOCHIZUKI et. al.** )  
 )  
**Application Number: To be Assigned** )  
 )  
**Filed: Concurrently Herewith** )  
 )  
**For: MAGNETIC RECORDING HEAD AND** )  
**MAGNETIC DISC STORAGE APPARATUS** )  
**MOUNTING THE MAGNETIC HEAD** )  
 )  
**Attorney Docket No. HIRA.0126** )

**Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231**

**INFORMATION DISCLOSURE STATEMENT**

**Sir:**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449. Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified, is submitted herewith.

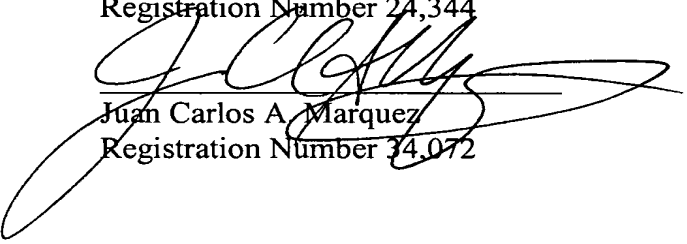
This Information Disclosure Statement is submitted with the initial filing of the application. Accordingly, no fee is due or payable at this time.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Please charge any additional fees or credit any overpayments in connection with this paper to Deposit Account No. 08-1480.

Respectfully submitted,

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	APPLICANT <b>MOCHIZUKI et al.</b>	
	FILING DATE <b>Concurrently herewith</b>	GROUP

## U.S. Patent Documents

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,656,546	04/07/1987	Mallory			01/22/1985

## Foreign Patent Documents

Examiner Initial	DOCUMENT NUMBER	FILING DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						Yes	No
	2002-092820	09/20/2000	Japan			Abstract	X

## Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

	Mallory, M., Torabi, A. and Benakli, M; "One Terabit per Square Inch Perpendicular Recording Conceptual Design"; IEEE Transactions on Magnetics, Vol. 38, No. 4, July 2002, PP 1719-1724
	Kiyoshi Yamakawa, Kazuyuki Ise, Shingo Takahashi and Kazuhiro Ouchi; "A New Single-Pole Head Structure for High Writability"; IEEE Transactions on Magnetics, Vol. 38, No. 1, January 2002, PP 163-168
	Xia, Weixing et al., "Relation of Field Gradient of Single Pole Head and Transition Parameter in Perpendicular Double Layer Media", Technical Report of the Institute of Electronics, Information and Communication Engineers, MR2001-87, PP 21-27
	Matsubara, Ryo et al., "Recording Field Analysis of a High Track Density SPT Head (3) - SPT head with tapered main pole, tapered return path, and side shield yokes- ", Technical Report of the Institute of Electronics, Information and Communication Engineers, MR2002-65, 6 pages
	Hannay, J.D. et al., "Investigation of Perpendicular Write Head Performance at High Densities Using a Hybrid Recording System Model", Abstract No. FA02 of the 47 <sup>th</sup> Annual Conference on Magnetism and Magnetic Materials, November 14, 2002, pp. 275
	Shukh, A. and J. Van Ek, "Write Field Gradient Effect on Perpendicular Recording", Abstract No. FA03 of the 47 <sup>th</sup> Annual Conference on Magnetism and Magnetic Materials, November 14, 2002, pp. 275

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant